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APPLICATION NO.	ATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/517,918	12/14/2004	Joachim Wilhelm Hellmig	NL 020529	8895		
24737	7590 08/24/2006		EXAM	EXAMINER		
-	NTELLECTUAL PROP	RIVERO, N	RIVERO, MINERVA			
P.O. BOX 3 BRIARCLII	001 FF MANOR, NY 10510	ART UNIT	PAPER NUMBER			
2	,	2627				
			DATE MAILED: 08/24/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Α	pplication	No.	Applicant(s)			
Office Action Summan		1	10/517,918		HELLMIG, JOACHIM WILHELM			
Office Action Summary			xaminer	·	Art Unit			
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Period fo	The MAILING DATE of this commun or Reply	ication appear	rs on the co	over sheet with the c	correspondence ad	dress		
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M resions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm reperiod for reply is specified above, the maximum st re to reply within the set or extended period for reply reply received by the Office later than three months a red patent term adjustment. See 37 CFR 1.704(b).	ALLING DATE of 37 CFR 1.136(a) nunication. atutory period will a v will, by statute, cau	E OF THIS). In no event, pply and will exist the applical	COMMUNICATION however, may a reply be tin topire SIX (6) MONTHS from ion to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).			
Status								
1)⊠	Responsive to communication(s) file	ed on <i>14 June</i>	2006.					
2a)⊠	, , , , , , , , , , , , , , , , , , , ,	2b) ☐ This ac	·	-final.				
3)	Since this application is in condition	<i>/</i> —			secution as to the	merits is		
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
D : '''	601				•			
Dispositi	on of Claims							
4)⊠	Claim(s) 1-14 is/are pending in the a	application.						
	4a) Of the above claim(s) is/a	re withdrawn	from consi	deration.				
5) 🗌	Claim(s) is/are allowed.	•	•	•				
6)⊠	Claim(s) <u>1-14</u> is/are rejected.							
7) 🗌	Claim(s) is/are objected to.	•		. •				
8) 🗌	Claim(s) are subject to restrict	ction and/or el	lection requ	uirement.				
Applicati	on Papers							
9) 🗌	The specification is objected to by th	e Examiner.						
10)	The drawing(s) filed on is/are	: a)∐ accept	ed or b)	objected to by the	Examiner.			
	Applicant may not request that any obje	ction to the dra	wing(s) be h	neld in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	the correction	is required	if the drawing(s) is ob	jected to. See 37 Cl	FR 1.121(d).		
11)	The oath or declaration is objected to	o by the Exam	niner. Note	the attached Office	Action or form PT	TO-152.		
Driority	ınder 35 U.S.C. § 119							
						*.		
	Acknowledgment is made of a claim ☐ All b) ☐ Some * c) ☐ None of:	for foreign pri	iority unde	r 35 U.S.C. § 119(a))-(d) or (f).			
	1. Certified copies of the priority	documents ha	ave been r	eceived.				
	2. Certified copies of the priority				ion No.			
	3. Copies of the certified copies			• •		Stage		
,	application from the Internation	•				J		
* See the attached detailed Office action for a list of the certified copies not received.								
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Attachmen	• • •							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Paper No(s)/Mail Date. Paper No(s)/Mail Date. Notice of Informal Patent Application (PTO-						D-152)		
Paper No(s)/Mail Date								

DETAILED ACTION

Response to Amendment

In the response filed 6/14/06, Applicants amended claims 1 and 11, added claim
 and submitted arguments for allowability of pending claims.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claims 1-13, the added material, which is new matter added to the claims is as follows: 'three consecutive erase periods that together substantially fill the period between the two successive sequences of pulses for writing marks' (claims 1 and

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11). The claimed feature lacks a written description and hence is new matter as not

being found in the original disclosure.

Applicant is required to cancel the new matter in the reply to this Office Action.

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Response to Arguments

4. Regarding claims 1 and 11, Applicant argues that Dekker discloses an erase

period that starts with a low pulse. As shown in Fig. 2b of Applicant's Specification,

there is a low pulse after the last writing pulse and before the first higher erase pulse.

Figures 1A and 1B in Dekker's disclosure shows an erasing pattern wherein, after a low

pulse succeeding a final writing pulse, two erasing pulses of 0.5T1 length occur,

followed by a lower intensity 0.5T1 pulse.

Therefore the claims stay rejected.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United

States.

by Dekker (US 2002/0003762).

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6. Claims 1-8 and 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated

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- Regarding claims 1, 11 and 14, Dekker discloses a recording device for and method of recording marks representing data in an information layer of a record carrier by irradiating the information layer by means of a pulsed radiation beam, each mark being written by a sequence of pulses ([0001]), the recorded marks being erasable by irradiating the information layer with an erase radiation beam (*erase step*, [0001]), characterized in that said erase radiation beam has a first erase power level for a first erase period (Pe (*after pulse sequence 13*) during a first ½ T1 segment, see Fig. 1A and 1B, pulse sequence 14), a second erase power level higher than or equal to said first erase power level for a second erase period (Pe during a second ½ T1 segment, see Fig. 1A and 1B, pulse sequence 14), and a third power level lower than said second erase power level for a third erase period (P1 during two ½ T1 segments, prior to Pw, Fig. 1A, and P2 during two ½ T1 segments, prior to Pw, Fig. 1A, and P2 during two ½ T1 segments, prior to Pw, Fig. 1B; *variable bias power level*, [0010]).
- 8. Regarding claims 2 and 12, Dekker discloses said third erase power is lower than said first erase power (Fig. 1, given 3rd erase power level at 1st ½ T1 segment is lower than P2 is lower than Pe, given that the 1st erase period is bottom pulse at P2 and the 2nd erase period is top pulse at Pe).

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9. Regarding claims 3 and 13, Dekker discloses said first erase power level and said third erase power level are substantially equal and lower than said second erase power level (see Fig. 1, 1st and 3rd erase periods are bottom pulses at P2 and 2nd erase period is top pulse at Pe).

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- 10. Regarding claim 4, Dekker discloses said second erase power level is lower than the write power level (w) of said pulses of said radiation beam for recording marks ([0003], Lines 5-8).
- 11. Regarding claim 5, Dekker discloses said third erase power level is higher than the bias power level (b) between said pulses of said pulsed radiation beam for recording marks (P1 and P2 are higher than the bias power in writing pulse sequence 13, see Figs. 1A and 1B).
- 12. Regarding claim 6, Dekker discloses said first erase period and said second erase period are shorter than said third erase period (Pe during a first and second ½ T1 segments, P1 and P2 occur during a T1 segment prior to Pw, Figs. 1A and 1B).
- 13. Regarding claim 7, Dekker discloses the sum of said first erase period and said second erase period is shorter than half the shortest mark being recorded (mark length is 4T1, first and second erase periods total T1, Figs. 1A and 1B).

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14. Regarding claim 8, Dekker discloses said information layer has a phase which is reversibly changeable between a crystal phase and an amorphous phase ([0002], Lines 4-6).

Claim Rejections - 35 USC § 103

- 15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 16. Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dekker (US 2002/0003762) in view of Nagata et al. (US 6,456,584).
- 17. Regarding claims 9 and 10, Dekker does not disclose but Nagata *et al.* do disclose said record carrier comprises at least two information layers (Col. 3, lines 51-59) and at least one of said two information layers is at least partially transparent layer (Col. 4, Lines 44-45).

Therefore it would have been obvious to one ordinarily skilled in the art at the time of the invention to supplement the teachings of Dekker by having said record carrier comprise at least two information layers, and having at least one of said two

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information layers be at least partially transparent layer, as disclosed by Nagata et al., in order to achieve a higher recording density in the optical disk, and to enable retrieval of the contents in the deeper information layer of the medium.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minerva Rivero whose telephone number is (571) 272-7626. The examiner can normally be reached on Monday-Friday 9:00 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on (571) 272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MR 8/16/06

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